

Title (en)

KETO ACID SALTS AND AMINE DERIVATIVES, AND THEIR USE FOR PREPARING MEDICINES

Title (de)

SALZE DER KETOSÄUREN UND AMINE SOWIE IHRE VERWENDUNG ZUR HERSTELLUNG VON MEDIKAMENTEN

Title (fr)

SELS DE CETOACIDES ET DE DERIVES AMINES, ET LEUR UTILISATION POUR LA PREPARATION DE MEDICAMENTS

Publication

**EP 1061909 B1 20020605 (FR)**

Application

**EP 99907688 A 19990311**

Priority

- FR 9900545 W 19990311
- FR 9803155 A 19980313

Abstract (en)

[origin: US6429229B1] The invention concerns the use of compounds of general formula (I): (X)<sub>n1</sub>Y,(Z)<sub>n2</sub> wherein n1 and n2 represent 0 or 1; X represents a natural amino acid, in particular an amino acid selected among ornithine, arginine, lysine, histidine or glutamine; Y represents a keto acid of formula (II): R-CO-COOH wherein R represents -CH<sub>3</sub>, -CH<sub>2</sub>-CH<sub>3</sub>, -CH(CH<sub>3</sub>)<sub>2</sub>, -CH(CH<sub>3</sub>)-CH<sub>2</sub>-CH<sub>3</sub>, -CH<sub>2</sub>-CH(CH<sub>3</sub>)<sub>2</sub>, -CH<sub>2</sub>)<sub>2</sub>-COOH, -CH<sub>2</sub>)<sub>3</sub>-COOH; Z represents: a natural amino acid selected in particular among ornithine, arginine, lysine, histidine or glutamine; or a polyamine selected in particular among cadaverine, putrescine, spermidine, spermine or agmatine. Said compounds are useful for preparing a medicine for treating human or animal pathologies wherein are involved silent neurons, such as pathologies of the digestive tract, the bladder and the biliary ducts.

IPC 1-7

**A61K 31/195**; **A61K 31/19**; **A61K 31/13**; **A61P 1/00**; **A61P 13/00**

IPC 8 full level

**A61K 31/13** (2006.01); **A61K 31/19** (2006.01); **A61K 31/194** (2006.01); **A61K 31/198** (2006.01); **A61P 1/00** (2006.01); **A61P 1/16** (2006.01); **A61P 13/10** (2006.01); **A61P 43/00** (2006.01)

CPC (source: EP US)

**A61K 31/13** (2013.01 - EP US); **A61K 31/19** (2013.01 - EP US); **A61K 31/194** (2013.01 - EP US); **A61K 31/198** (2013.01 - EP US); **A61P 1/00** (2017.12 - EP); **A61P 1/16** (2017.12 - EP); **A61P 13/00** (2017.12 - EP); **A61P 13/10** (2017.12 - EP); **A61P 43/00** (2017.12 - EP)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**US 6429229 B1 20020806**; AR 014714 A1 20010328; AT E218335 T1 20020615; AU 2733699 A 19991011; BR 9909651 A 20001121; DE 69901689 D1 20020711; DE 69901689 T2 20030130; DK 1061909 T3 20020923; DZ 2743 A1 20040905; EG 24397 A 20090427; EP 1061909 A1 20001227; EP 1061909 B1 20020605; ES 2177250 T3 20021201; FR 2775901 A1 19990917; FR 2775901 B1 20000721; HK 1035856 A1 20011214; JP 2002506816 A 20020305; MA 24775 A1 19991001; PT 1061909 E 20021129; TN SN99032 A1 20051110; TW I235059 B 20050701; WO 9947134 A1 19990923; ZA 991982 B 19991123

DOCDB simple family (application)

**US 64605900 A 20001113**; AR P990101081 A 19990312; AT 99907688 T 19990311; AU 2733699 A 19990311; BR 9909651 A 19990311; DE 69901689 T 19990311; DK 99907688 T 19990311; DZ 990044 A 19990310; EG 26199 A 19990313; EP 99907688 A 19990311; ES 99907688 T 19990311; FR 9803155 A 19980313; FR 9900545 W 19990311; HK 01104440 A 20010627; JP 2000536374 A 19990311; MA 25487 A 19990309; PT 99907688 T 19990311; TN SN99032 A 19990304; TW 88103682 A 19990310; ZA 991982 A 19990311